

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : RICOH CO LTD

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(72)Inventor : NISHIMURA YUTARO

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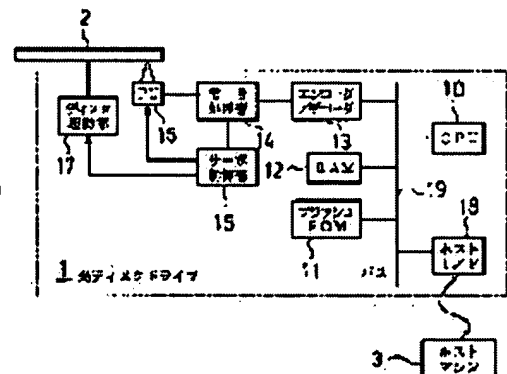
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## (54) FIRMWARE UPDATING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To make firmware operate on a fast memory and also to equally perform processing having temporal constraint regardless of its operating memory area.

SOLUTION: When new firmware is downloaded to a flash ROM 11 for firmware update, operation environments are respectively set to be downloaded so that it can be operated on a RAM 12 in the case it can be operated on the RAM 12 on the basis of the compared results of the execution size of the new firmware with the capacities of the ROM 11 and the RAM 12 and so that it can be operated on the ROM 11 in the case it can not be operated on the RAM 12. For a time control program using a hardware timer, the same program is used for both the ROM 11 and the RAM 12, and a time control program by software is changed in accordance with the set content of the operation environment.



## LEGAL STATUS

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